

Professors:

João Pedro Costa (coord., A), Madalena Bailey (A), Ana Marta Feliciano (B), Pedro Bento (C), Lucinda Correia (D), Marta Pavão (E), Carlos Ferreira (F), Barbara Massapina (G), Margarida Louro (H), José Afonso (I), Francisco Cardoso (J)

EXERCISE 1 PROGRAM: ARCHITECTURAL DESIGN AND REPRESENTATION

OBJECTIVES

Exercise 1 aims to consolidate mastery of project representation tools at scales 1:200 / 1:100 and 1:50, while fostering a critical perspective on architecture.

Students are expected to develop the following skills:

- Mastery of project representation tools.
- Ability to interpret architecture in space and to produce its accurate representation.
- Development of the architectural culture.

PROGRAM / Syllabus

The exercise is based on a contemporary architectural work, assigned by the class instructor to groups of 5 students, with the aim of fostering discussion and the exchange of experiences within the group.

Each student must individually redraw an existing floor plan and produce from scratch a new section that intersects relevant moments of the work and has not been drawn by the original authors. These two drawings must be coordinated with one another and developed at a scale of 1:200 or 1:100 and at a scale of 1:50, including all elements required for precise representation, among others:

- Indication of the section line(s) and hatching of the cut areas, with content adjusted to the drawing scale.
- Representation of volumetric interior elements in view.
- Representation of volumetric elements in view that form the surroundings or background of the work.
- Representation of stereotomic elements and surface components in view.
- Representation of topographic features (contour lines, slopes, etc.).
- Representation of dimensional identifiers (altimetric levels, contour line values, etc.).
- Drawing identifiers (graphic and numeric scale, orientation, legend, etc.).

The exercise is hand-drawn on A1+ sketch paper and submitted to the cloud, with the drawings compiled into a booklet according to the provided layout.

EXERCISE CALENDAR

- Exercise launch: Class 1, September 8.
- Exercise submission: By upload to the cloud until 11:59 p.m. on September 1, with discussion on class 3.

EVALUATION OF THE EXERCISE

The exercise is based on a process of continuous assessment and interaction with the teaching team, both in class and through independent work.

The assessment criteria focus on the objectives of the exercise identified above, as well as on the quality of individual participation, attendance, and punctuality of the students:

C1- Understanding of the site and appropriateness of ideas: not applicable.

C2- Potential spatial quality: not applicable.

C3- Support of disciplinary culture: not applicable.

C4- Space, material, and tectonics: not applicable.

C5- Mastery of representation techniques (manual methods): 70%.

C6- Development and quality of the design process: 20%.

C7- Quality of participation in classes, attendance, and punctuality: 10%.

BIBLIOGRAPHY OF THE EXERCISE

CHING, Francis (2001). *Representação gráfica para desenho e projecto*. Barcelona: Gustavo Gili.

Lisbon, September 5th, 2025